

MARKHININ, Ye.K.; SIRIN, A.N.; TIMERBAYEVA, K.M.; TOKAREV, P.I.

Geographic zoning of Kamchatka and the Kurile Islands based on
the occurrence of volcanoes. Biul. Vulk. sta. no.32:52-70 '62.
(MIRA 15:10)

(Kamchatka--Volcanoes) (Kurile Islands--Volcanoes)

MARKHININ, Ye.K.; ALYPOVA, O.M.; NIKITINA, I.B.; PUGACH, V.B.; TOKAREV, P.I.

State of volcanoes of the Klyuchevskaya group and the Sheveluch
Volcano in 1960. Biul. Vulk. sta. no.32:3-13 '62. (MIRA 15:10)
(Kamchatka--Volcanoes)

MARKHININ, Ye.K.; BASHARINA, L.A.; BORISOV, O.G.; BORISOVA, V.N.; PUGACH, V.B.;
TIMERBAYEVA, K.M.; TOKAREV, P.I.

Study of the state of volcanoes of the Klyuchevskaya group and the
Sheveluch Volcano in 1958-59. Biul.Vulk.sta. no.31:3-16 '61.

(Kamchatka--Volcanoes)

(MIRA 15:2)

TOKAREV, P.I.

Energetic estimation of the strength of earthquakes of the
Bezmyanny Volcano. Biul.Vulk.sta. no.31:38-45 '61.

(Bezmyanny Volcano--Earthquakes) (MIRA 15:2)

TOKAREV, S.

Improve the geographical distribution of industrial production and the construction of enterprises. Plan.khoz. no.3:40-51 '53. (MLRA 6:7)
(Industries, Location of)

OSHAROV, P.; PAGIN, V.; TESLYA, Ye., inzh.; CHERNOVA, Ye.; KOPTEV, A.;
LAZUTIN, P.; ANISHCHENKOV, T., instruktor; TOKAREV, S.; BERSON,
S.; KRICHEVSKIY, A.

They have too far to go. Sov. profsoiuzy 18 no.5:40-41 Mr '62.
(MIRA 15:3)

1. Raydovaya brigada zhurnala "Sovetskiye profsoyuzy".
2. Krasnoyarskiy krayevoy komitet profsoyuza rabochikh stroitel'stva i promyshlennosti stroymaterialov (for Koptev). 3. Posadchik prokatnogo tsekha zavoda "Sibelektrostal'" (for Lazutin).
4. Krasnoyarskiy krayevoy komitet profsoyuza rabotnikov mestnoy promyshlennosti i kommunal'nogo khozyaystva (for Anishchenkov).
5. Zaveduyushchiy lektorskoy gruppoy Krasnoyarskogo krayevogo soveta profsoyuzov (for Tokarev). 6. Zaveduyushchiy otделom krayevoy gazety "Krasnoyarskiy rabochiy" (for Berson). 7. Spetsial'nyy korrespondent zhurnala "Sovetskiye profsoyuzy" (for Krichevskiy).
(Krasnoyarsk--City planning)

TOKAREV, S.

Visiting German craftsmen. Vokrug sveta no.12:46-48 D '53.

(MLBA 6:12)

(Germany, Eastern--Cottage industries) (Cottage industries--
Germany, Eastern)

SEMIRYAGA, M.I.; TOKAREV, S.A., redaktor; GRIBAKIN, D.V., redaktor;
KIRNARSKAYA, A.A., tekhnicheskii redaktor

[Lusations] Luzhichane. Moskva, Izd-vo Akademii nauk SSSR, 1955.
190 p. (MLRA 9:1)

(Wends)

BUNAK, V. V.: TOKAREV, S. A.

Man, Prehistoric - Australia

Problems in settlement of Australia and Oceania. Trudy Inst.etn.AN SSSR 16, 1951

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

TOKAREV, S. A., Reviewer

Spoyehr, Alexander, 1913-

"Majuro. A village in the Marshall Islands." Alexander Spoyehr, Author.
Reviewed by S. A. Tokarev. Sov.etn. No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952, Uncl.

TOKAREV, S. A.

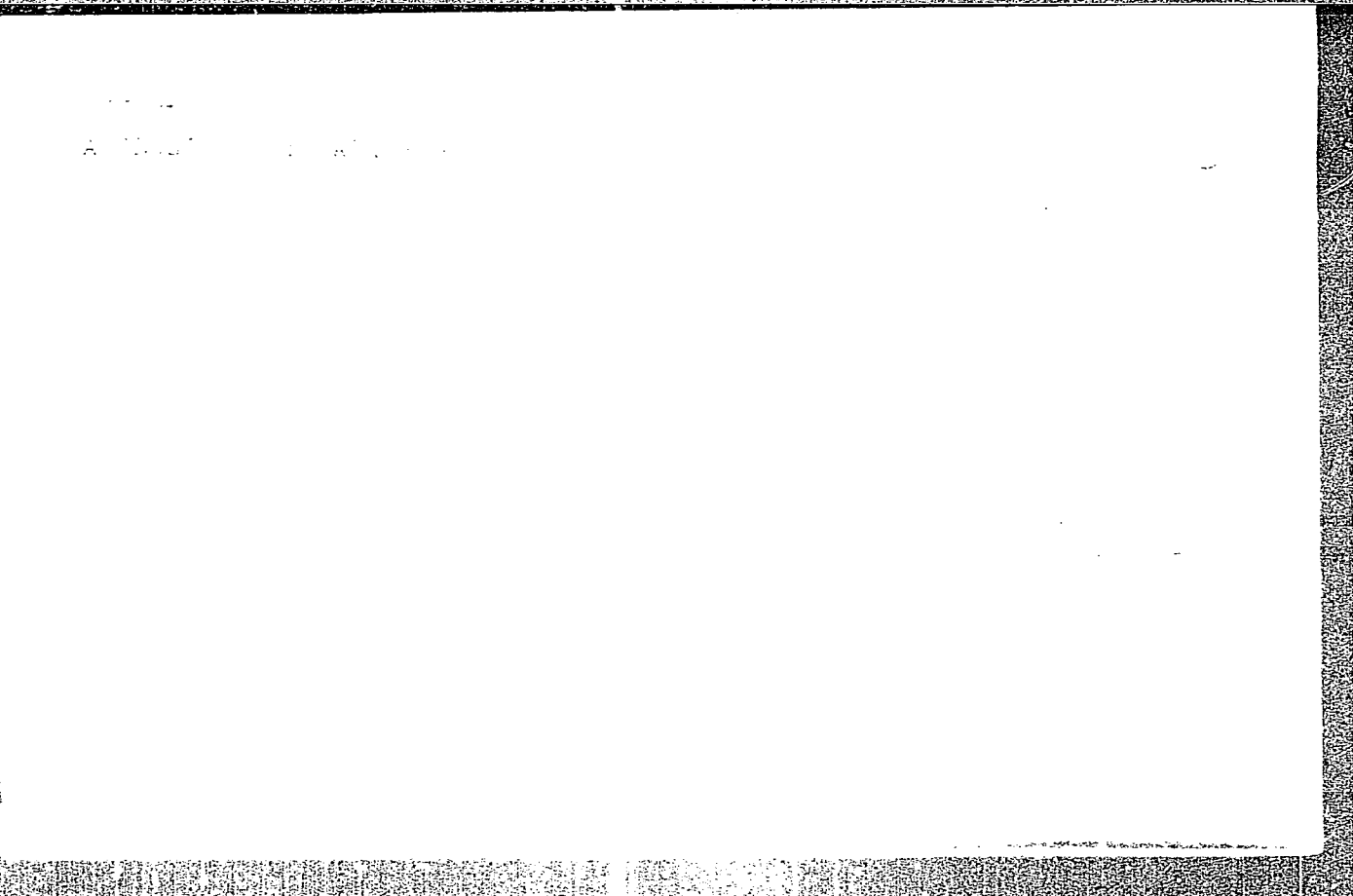
Khakass

Survival of tribal relations among the Khakass in the 19th century.
Trudy Inst. etn. 18 1952

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

"APPROVED FOR RELEASE: 07/16/2001

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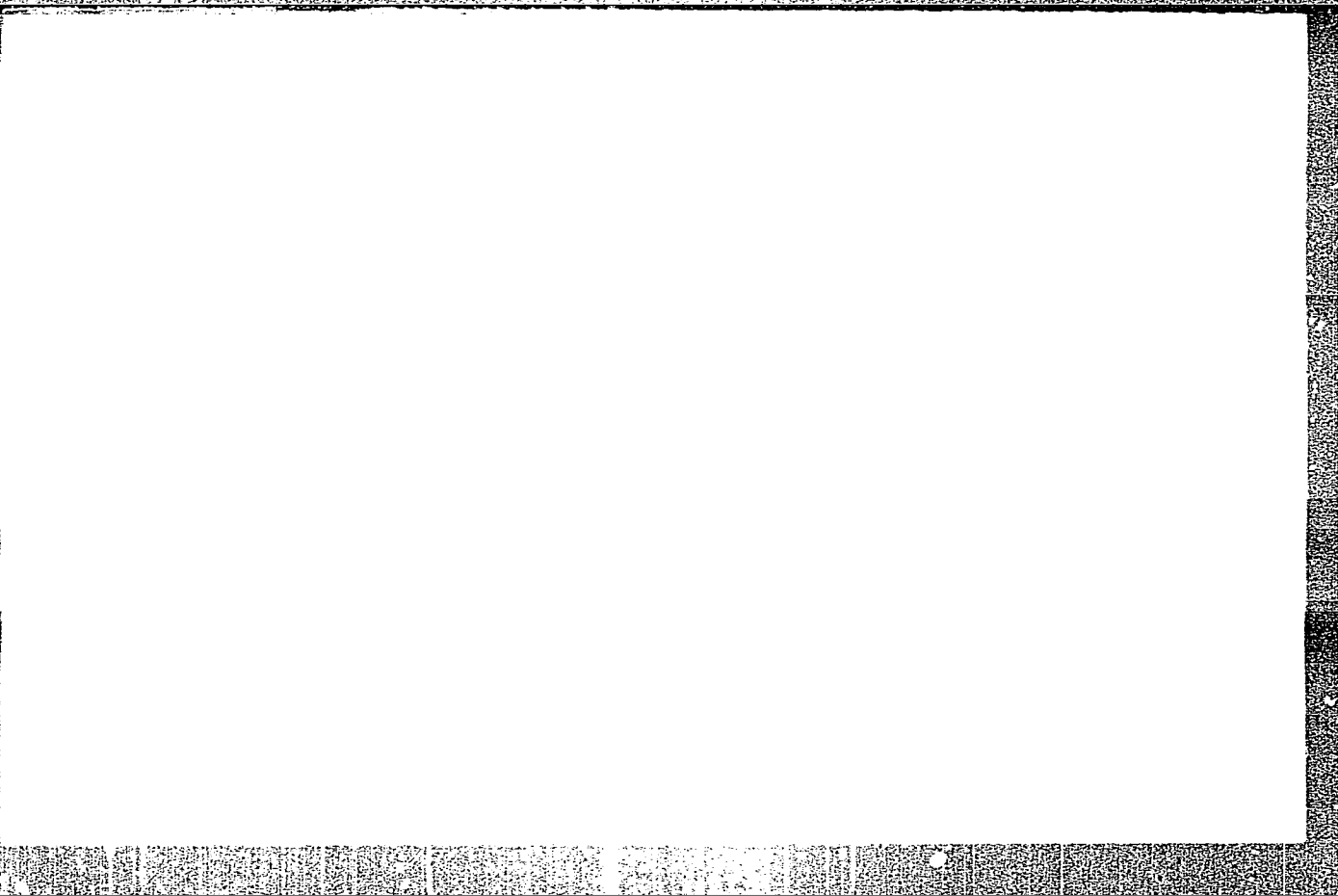


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1. TOKAREV, S. A.
2. USSR (600)
4. Ilimsk Voivodeship - Agriculture
7. Books about the Russian settlement of Siberia, ("Arable land of Ilimsk", V. N. Sherstoboyev; "The population of the Tomsk District in the first half of the 17th century", A. Ya. Boyarshinova, reviewed by S. A. Tokarev), Sov. etn., no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

TOKAREV, S. A.

Potapov, Leonid Pavlovich, 1905 -

Brief outline history and ethnography of the Khakassas. L. P. Potapov. Reviewed
S. A. Tokarev. Sov. kniga No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

TOKAREV, S.A.

Origin of the Buriat people. Sov.etn. no.2:37-52 '53.

(MLRA 6:6)
(Buriats)

LEVIN, M.G.; TOKAREV, S.A. [reviewers].

"Cultural-historical school" in a new stage ("Culture and language" [in German]. Reviewed by M.G.Levin, S.A.Tokarev). Sov.etn. no.4:148-156 '53.
(MIRA 6:12)
(Ethnology)

LIPSHITS, B.A.; TOKAREV, S.A. [reviewers]; LIPS, Julius [author].

How American imperialism corrupts the negro intelligentsia ("Journey into twilight" [in German]. Julius Lips. Reviewed by B.A.Lipshits, S.A.Tokarev). (MIRA 6:12)
Sov.etn. no.4:170-180 '53.

(Lips, Julius Ernst, 1895-1950) (United States--Negroes)
(Negroes--United States) (Howard University)

TOKAREV S.

LISTOVA, N.; TOKAREV, S.

"Ethnographic-archaeological research." Sov.etn. no.3:182-184 '54.
(MLRA 7:11)

(Germany, Eastern--Ethnology--Periodicals) (Ethnology--
Periodicals--Germany, Eastern)

MURAV'YEV, Vladimir Branislavovich; TOKAREV, S.A., doktor istor. nauk,
otv. red.; GRISHINA, L.I., red.; BURLAKA, N.P., tekhn. red.

[Stakes of forgotten paths] Vekhi zabytykh putei. Moskva, Gos.
izd-vo geogr. lit-ry, 1961. 61 p. (MIRA 14:8)
(Kastren, Matias Aleksandr, 1813-1852)
(Russia, Northern--Native races)

SHIRYAYEV, D.T.; TOKAREV, S.A.; SHEVCHENKO, S.F.

Application of the antibody neutralization reaction for the retrospective diagnosis of epizootic tularemia. Zhur.mikrobiol., epid. i immun. 41 no.5:50-54 My '64. (MIRA 18:2)

1. Rostovskiy-na-Donu nauchno-issledovatel'skiy protivochumnyy institut.

ACC NR: AP6021095

(N,N)

SOURCE CODE: UR/0358/66/035/003/0305/0309

AUTHOR: Shiryayev, D. T.; Shevchenko, S. F.; Tokarev, S. A.; Orekhova, I. M.

ORG: State Scientific Research Antiplague Institute, Rostov-na-Donu (Gosudarstvennyy nauchno-issledovatel'skiy protivochumnyy institut)

TITLE: Experimental studies of ticks as tularemia vectors

SOURCE: Meditsinskaya parazitologiya i parazitarnyye bolezni, v. 35, no. 3, 1966, 305-309

TOPIC TAGS: human disease, animal disease, disease vector, tick, orthopod vector, tularemia, animal parasite

ABSTRACT:

The tick species *Hyalomma plumbeum plumbeum* and *Haemaphysalis punctata* infected with tularemia occur in nature. The authors infected these species with tularemia under laboratory conditions. The ticks retained the infective agent throughout all stages of development. Nymphs of *H. plumbeum* infected animals with tularemia over an 82-day period, suggesting that these ticks, which are prevalent in the southern steppes, are important in maintaining natural tularemia foci. Orig. art. has: 3 tables.

[W.A. 50; CBE No. 10]

SUB CODE: 06/ SUBM DATE: 04Jun63/ ORIG REF: 015/

Card 1/1

UDC: 616.455-022.39:595.42+576.895.42

TOKAREV, S. A.

"Problemy izucheniya rannikh form religii v sovetskoy nauke."

report submitted for 7th Intl Cong Anthropological & Ethnological Sciences,
Moscow, 3-10 Aug 64.

TOKHARKV, S. N.

TUZHILKIN, N.D., otv.za vypusk. Prinimali uchastiye: KHOLIN, N.S.
[deceased]; LEVCHENKO, I.I.; KUDRYAVTSEV, A.T.; TOKAREV, S.N.,
zasluzhennyy uchitel' shkoly RSFSR. SELEZNEV, N.G., red.;
PULIN, L.I., tekhn.red.

[Public education in Tula Province; collection of materials]
Narodnoe obrazovanie v Tul'skoi oblasti; sbornik materialov.
Tula, Tul'skoe knizhnoe izd-vo, 1959. 134 p. (MIRA 13:2)

1. Tula. Oblastnoy institut usovershenstvovaniya uchiteley.
2. Direktor Tul'skogo oblastnogo instituta usovershenstvovaniya uchiteley (for Tuzhilkin).
3. Byvshiy zaveduyushchiy Tul'skim oblonom (for Kholin).
4. Direktor Yasnopolyanskoy shkoly im. L.N. Tolstogo (for Levchenko).
5. Direktor 26-y shkoly g.Tuly (for Kudryavtsev).
6. Zaveduyushchiy uchebnoy chast'yu 1-y shkoly g.Tuly (for Tokarev).

(Tula Province--Education)

PHASE I BOOK EXPLOITATION

SOV/3846

Tokarev, Sergey Pavlovich

Uskorennoye razvitiye promyshlennosti vostochnykh rayonov SSSR
(Accelerated Development of Industry in Eastern Regions of
the USSR) Moscow, Gosplanizdat, 1960. 116 p. 5,000 copies
printed.

Ed.: V.Ye. Lisov; Tech. Ed.: Ye.S. Gerasimova.

PURPOSE: This pamphlet is intended for the general reader.

COVERAGE: The pamphlet describes a program for the development of the national economy in the eastern portion of the Soviet Union. Emphasis is given to integration and overall utilization of local power-generating, mining, and manufacturing capacities. The achievement of economic self-sufficiency for these areas is discussed. The objectives of the current Seven-Year Plan in relation to the Soviet East are also presented. No personalities are mentioned. There are no references.

Card 1/2

Accelerated Development of Industry (Cont.) SOV/3846

TABLE OF CONTENTS:

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Ch. II. Industry of the Eastern Regions in the Seven-Year Plan	26
Ch. III. Development of Power and Fuel Capacities	44
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Ch. V. New Branches of Industry and Planning of an Integrated Economy for the Eastern Regions	91

AVAILABLE: Library of Congress (HC485.T6)

Card 2/2

AC/pw/mh
7-18-60

SEREDA, G. [Sereda, H.], inzh.; TOKAREV, V. [Tokariev, V.], inzh.

Mechanization of the erection of solid walls. Sil'.bud. 12
no.7:13-14 JI '62. (MIRA 15:8)
(Walls) (Construction equipment)

TOKAREV, Sergey Pavlovich; LISOV, V.Ye., red.; GERASIMOVA, Ye.S.,
tekhn.red.

[Intensified industrial development of the eastern regions
of the U.S.S.R.] Uskorennoe razvitie promyshlennosti vostochn-
nykh raionov SSSR. Moskva, Gosplanizdat, 1950. 116 p.

(MIRA 13:2)

(Russia--Economic policy)

25 (5)

AUTHOR:

Tokarev, S. T., Engineer

SOV/119-59-5-11/22

TITLE:

An Experiment of Automatization in the Pits of the Kizelovsk Coal Field (Opyt avtomatizatsii na shakhtakh Kizelovskogo ugol'nogo basseyna)

PERIODICAL:

Priborostroyeniye, 1959, Nr 5, pp 20 - 23 (USSR)

ABSTRACT:

The automatization of the control of machines and mechanisms in the Kizelovsk Coal Field was practically started in 1956, when a works department for automatization and special out-ward-working brigades had been organized at the Kizel Mining Repair Plant (Kizelovsk Mining Repair Shop). After the automatization had been realized, a total number of 230 workers were spared in the whole "Kizelugol" Kombinat, and annual financial savings were 1,840,000 rubles. The automatization of the band and scoop conveyers yields immense profits, for by this measure alone 22 operators could be spared. For the automatization of conveyer lines, the relays GRS-1, RUK-1 and RUK-2 are generally used. In some pits, the relays designed by the electrician Comrade Murashko of pit Us'ba 1/2 were used. These relays will be introduced in all pits of the Kizel Field. The next section of the present paper deals with the automatic

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An Experiment of Automatization in the Pits of the
Kizelovsk Coal Field

SOV/119-52-5-11/22

control of the discharge devices of the bunker at the hauling installations of the pits. This automatic control is destined for the observation of the discharge process from the skips into the bunker, and also for a safer determination of disturbances and an anomalous position of junctions of the discharge device. 22 hauling installations have been automatized up to date in the Kizelovsk Coal Field in the way discussed in the present paper. The next section reports on the remote control of ventilators in the main ventilation plant. The apparatus AVGP-1 was used for this purpose. It is produced in series by the Konotopskiy zavod "Krasnyy metallist" (Konotop Factory "Red Metal Worker"). The last section deals with the protection of l.c. cables against the breakdown of the envelope. The corresponding wiring was developed by Comrade P. G. Chubov, Chief of the Tsakha avtomatizatsii KRRZ (Works Department for Automatization of the KRRZ). There are 3 figures.

Card 2/2

TOKAREV, T.M.

Is there a need for special sunflower combines. Zemledelie 8
no.11:84-85 N '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i
efiromaslichnykh kul'tur.
(Sunflowers--Harvesting)

SEMIKHENKO, Pavel Grigor'yevich, kand.sel'skokhoz.nauk; KLYUCHNIKOV, A.I.,
kand.sel'skokhoz.nauk; TOKAREV, T.M., kand.sel'skokhoz.nauk;
YAGODKINA, V.P.; PETERSKAYA, A.M.; ANTONOVA, M.M., red.; DEYEVA,
V.M., tekhn.red.

[Sunflower cultivation] Kul'tura podsolnechnika. Moskva, Gos.
izd-vo sel'khoz.lit-ry, 1960. 275 p. (MIRA 13:10)
(Sunflowers)

KLYUCHNIKOV, Andrey Ivanovich; TOKAREV, Tikhon Matveyevich.

[General mechanization of the cultivation and harvesting of sunflowers] Kompleksnaya mekhanizatsiya vosklyvaniya i uborki podsolnechnika. Moskva, Gos. izd-vo selkhoz. lit-ry, 1958. 95 p.
(Sunflowers) (MIRA 11:10)

KLYUCHNIKOV, Andrey Ivanovich; TOKAREV, Tikhon Matveyevich;
GREBTSOV, P.P., red.; TRUKHINA, O.N., tekhn. red.

[Over-all mechanization of sunflower growing and
harvesting] Kompleksnaia mekhanizatsiia vozdeleyvaniia
i uborki podsolnechnika. Izd.2., ispr. i dop. Moskva,
Sel'khozizdat, 1963. 103 p. (MIRA 16:6)
(Sunflowers)

IL'INA, Ye.V.; LYUBOMIROV, B.N.; TYCHINO, N.Ya.; TOKAREV, T.N.,
vedushchiy red.; SAFRONOVA, I.M., tekhn.red.

[Underground waters and gases of the Siberian Platform]
Podzemnye vody i gazy Sibirskoi platformy. Gos. nauchno-tekhn.
izd-vo nef. i gorno-topl.ivnoi lit-ry, Leningr. otd-nie.
1962. 289 p. (Leningrad. Vsesoiuznyi nef. nauchno-
issledovatel'skii geologorazvedochnyi institut. Trudy,
no.189). (MIRA 15:11)

(Siberian Platform--Petroleum geology)
(Siberian Platform--Gas, Natural--Geology)

TOKAREV, V. (Saratov).

Beloved workshop. Sov.profsoiuzy 5 no.10:60-61 0 '57. (MLRA 10:9)
(Kashkin, Ivan Vasil'evich)

TOKAREV, V., inzh.-polkovnik

Navigation systems. Av. i kosm. 47 no.2:59-63 F '65.

(MIRA 18:4)

8

Mineralogy of the Tershen coast (Kola peninsula).
V. A. Tokarev. *Tr. Leningrad. Univ. Ser. Geol. u.
min. Nauch. Abt.* 64, 55-88 (1935); *Neues Jahrb. Mineral.,
Geol., Ref.* II, 1938, 376-8. —The area consists of a
complicated (17 varieties of gneiss alone are noted) series
of metamorphosed sedimentary and intrusive rocks.
These are described in detail; a few quartz-calcite,
fluorite or -fluorite veins occur, some slightly auriferous;
also feldspathic which are connected with old plagioclase-
granite, and quartz-calcite veins in rapakivi-granite.
C. A. Silberrad

TOKAREV, V. A.

RT-1286 /Geological studies of the sea bottom of the Soviet Arctic/ Abridged from:
ob izuchenii geologii dna morei sovetskoi Arktiki.
Priroda, 35(5): 24-28, 1946.

TOKAREV, V. A.

PA 27T49

USSR/Geology
Arctic Studies

May 1947

"Geological Studies of the Sea Bottom of the Soviet Arctic," V. A. Tokarev, 6 pp

"Priroda" No 5

Very general description of the sea bottom of the Soviet Arctic. This article makes use of data obtained by the "Sedov" in its many expeditions. Mentions the names of many of the scientists connected with this branch of hydrology. All work was and is being conducted under the jurisdiction of the Arctic Institute.

ID

27T49

TOKAREV, V. A.

PA5/49T45

USSR/Geophysics
Meteorology

Jul 48

"In the International Meteorological Organization,"
V. A. Tokarev, 1 p

"Priroda" No 7

Reports Conferences held in Toronto and Washington,
Aug - Oct 1947.

5/49T45

TOKAREV, V. A.

PA 25/49T5

USSR/Agronomy
Fertilizer
Soils

Dec 48

"Diktionemovyye Shale as a New Type of Fertilizer," V. A. Tokarev, $\frac{1}{2}$ p

"Priroda" No 12

Studies conducted by Docent N. G. Zhezhelev over past 2 years have shown that diktionemovyye shale can increase fertility of Leningrad Oblast soils 50-60%. These shales are easily obtainable from Silurian deposits of Leningrad Oblast and Estonia. Large-scale experiments will be conducted in 1949

25/49T5

TOKAREV, V.A.

Ancient Chinese book on minerals and mining ("Old story of mountains
and seas" [in Chinese]). Zap.Vses.min.ob-va 85 no.3:393-394 '56.
(China--Mineralogy--Early works to 1800) (MLRA 9:11)

TOKAREV, V.A.

Seismism of the Arctic. Dokl.AN SSSR 106 no.5:904-906 F '56.

(MIRA 9:7)

1.Leningradskiy gornyy institut. Predstavleno akademikom D.V.
Nalivkinym.

(Arctic regions--Seismology)

TOKAREV, V.A.

Joint folded structures in the Arctic. Dokl.AN SSSR 106 no.6:
1080-1081 F '56. (MLRA 9:7)

Leningradskiy gornyy institut. Predstavleno akademikom D.V.
Malickinym.
(Arctic region--Folds (Geology))

TOMAREV, V.A.

~~Seismicity of the Barents Sea region. Trudy Len. ob-va est. 69~~
no.2:194-203 '57. (MIRA 11:2)
(Barents Sea region--Earth quakes)

AUTHOR: Tokarev, V. A.

20-119-4-40/60

TITLE: A Geological Interpretation of Data on the Seismic Activity of the Kola-Scandinavian Region (Geologicheskaya interpretatsiya materialov po seysmichnosti Kol'sko-Skandinavskogo regiona)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 4, pp. 772 - 775 (USSR)

ABSTRACT: Several new traits of the regional geological structure of the region in question result from the analysis of newest publications concerning seismic activity (Reference 1-3). 1094 earthquakes were registered in the course of 60 years in the region of the two peninsulas. The position of their epicentres indicates 2 vast and extended zones and 4 districts with seismic activity increased to a great extent (figure 1). The great majority of the earthquakes occurred at low depths (up to 60m). The denotation Sogne-Bergenskaya is suggested for the first zone of this kind. It lies between the Severnoye Sea (North Sea) near Bergen and the Barents Sea (Isle of Arnöy) along the Scandinavian coast and has a length of 2000 km and a

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20-119-4-40/60

A Geological Interpretation of Data on the Seismic Activity in the Kola-Scandinavian Region

width of 100-120 km. A second inner zone for which the denotation Klar-El'vskaya is suggested passes from the Skagerak strait northwards almost up to the boundary of the Kola peninsula. It has a length of 1350 km and is 80-90 km thick. Both zones have the same depth: 500 km. They end in the north west, in Sweden and Norway without reaching the USSR. The districts of increased seismic activity lie: a) near the Sogne fiord off the coast of the Norwegian Sea, between Tromsø and Bergen; b) in the surroundings of Bergen; c) at Port Oulu in Finland, in the east of the peak of the Botnicheskiv gulf; d) near the Oslo fiord in Sweden, from this fiord to Göteborg. A direct connection between the depth and the intensity of the earthquake is indicated. Surface earthquakes (up to 12 km depth) have an intensity of up to 2.4 (according to Gutenberg and Rikhter). An intensity of 3.6 - 3.9 is characteristic of depths of 55 - 60 km. An intensity of 4.4 - 4.5 is characteristic of depth of

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20-119-4-40/60

A Geological Interpretation of Data on the Seismic Activity in the Kola-
-Scandinavian Region

100 - 110 km, finally an intensity of 5.4 - 5.7 of a depth of 500 km. The seismic activity is connected with districts the surface of which consists of the oldest metamorphous rocks of Archaeantime, or granites, i. e. with elevation districts. All depressions, the surface of which consists of strata of proterozoic, Paleozoic, or mesozoic time, are found to be seismically passive. This applies also in the case of the seismic zone of the Caledonids. In the top-most parts of the earth's crust is the region of most intensive seismic activity (according to the number of earthquake tremors. At a depth of circa 60 - 100 km the hypocentres form here a kind of continuous horizon. The zones of depth movements do not coincide by chance with the macro-reliefs, i. e. with the coasts. The seismic data indicate recent vertical displacements of great extent. The zones of depth movements in the region in question are quite different from any other of the earth. The oceanic part lies here under

Card 3/4

TOKAREV, V.A.; VOLIS, I.I.

Preservation of fodder yeast. Gidroliz. i lesokhim. proc. 15
no.2:27 '62. (MIRA 18:3)

1. Leningradskiy gidroliznyy zavod.

BELYAYEVSKIY, I.A.; TOKAREV, V.A.

Improving the flotation method for yeast separation from the
still beer. Gidroliz. i lesokhim. prom. 16 no.7:11-17 '63.
(MIRA 16:11)

TOKAREV, V.A., inzh.

Automatic unit for mixing fluids. Khim. i nef. mashinostr. no.2:44-
45 F '65. (MIRA 18:4)

TOKAREV, V.A., doktor geol.-miner. nauk, otv. red.

[Nature in Murmansk Province] Priroda Murmanskoi oblasti.
Murmansk, Murmanskoe knizhnoe izd-vo, 1964. 222 p.
(MIRA 18:4)

TOKAREV, V.A., inzh.; YURGENSON, G.N., inzh.

New developments in foreign technology. Khim.mashinostr. no.2:
46 Mr-Ap '64. (MIRA 17:4)

TOCHILIN, Mitrofan Stepanovich; GORYAINOV, Pavel Mikhaylovich;
TOKAREV, V.A., doktor geol.-miner. nauk, otv. red.

[Geology and genesis of iron ores in the Imandra region of
the Kola Peninsula] Geologiya i genezis zheleznykh rud Pri-
imandrovskogo raiona Kol'skogo poluostrova. Moskva, Izd-vo
"Nauka," 1964. 101 p.
(MIRA 17:4)

TOKAREV, V.A.; GARIFULIN, L.L.

Stratigraphy of the Kolmozero-Voron'ya series. Vop. geol. i
min. Kol'. poluos. no.4:24-33 '63.

Genesis of amphibolites in the eastern part of the Kolmozero-
Voron'ya series. 63.74 (MIRA 16:10)

BELYAYEVSKIY, I.A.; TOKAREV, V.A.

Production of yeasts at the Leningrad Hydrolysis Plant. Gidroliz. i
lesokhim.prom. 16 no.1:26-28 '63. (MIRA 16:2)
(Leningrad—Hydrolysis) (Yeast)

TOKAREV, Vasilii Andreyevich, doktor geol.-miner. nauk; POTASHOVA,
V.P., red.; SYCHEVA, V.A., tekhn. red.

[Prospecting for new minerals] Na poiski novykh mineral'nykh
bogatsv. Murmansk, Murmanskoe knizhnoe izd-vo, 1962. 84 p.
(MIRA 16:5)

(Prospecting)

TOCHILIN, Mitrofan Stepanovich; TOKAREV, V.A., red.; YASSON, R.A.,
red. izd-va; BYKOVA, V.V., tekhn. red.

[Origin of ferruginous quartzites] Proiskhozhdenie zhelezi-
styxh kvartsitov. Moskva, Gosgeoltekhizdat, 1963. 167 p.
(MIRA 16:5)

(Quartzites)

CHEKMAREV, A.P., akademik; TOKAREV, V.A., inzh.

Analysis of formulas for the determination of specific metal
pressure on rolls. Trudy Inst. chern. met. AN URSR 15:16-45
'61. (MIRA 15:2)

1. Akademiya nauk USSR (for Chekmarev).
(Rolling (Metalwork))
(Pressure)

TOCHILIN, M.S., otv. red.; BEL'KOV, I.V., red.; GORBUNOV, G.I., red.;
KOZLOV, Ye.K., red.; SIDORENKO, A.V., red.; TOKAREV, V.A., red.;
SHENGER, I.A., red. izd-va; KONDRAT'YEVA, M.N., tekhn. red.

[Geology of the Kola Peninsula] Voprosy geologii Kol'skogo polu-
ostrova. Moskva, Izd-vo Akad. nauk SSSR, 1962. 146 p.
(MIRA 15:6)

1. Akademiya nauk SSSR. Kol'skiy filial, Kirovsk.
(Kola Peninsula--Geology)

TOKARNV, V.A.

Conglomerates of the Kolmozero-Voron'yey series; location of the series and importance of the conglomerates. Izv.Kar.i Kol.fil. AN SSSR no.5:38-48 '68. (MIRA 12:9)

1. Geologicheskii institut Kol'skogo filiala AN SSSR.
(Kola Peninsula--Conglomerate)

TOKAREV, V.A.

Some features of the geological structure of the Kola-
Scandinavian region; based on seismic data. Izv. Kar. i Kol'.
fil. AN SSSR no.1:14-26 '59. (MIRA 12:9)

1. Geologicheskii institut Kol'skogo filiala AN SSSR.
(Scandinavia--Earthquakes) (Kola Peninsula--Earthquakes)

TOKAREV, V.A.; GARIFULIN, L.L.

Some moot questions in the pre-Cambrian geology of the Kola
Peninsula. Izv.Kar. i Kol'.fil.AN SSSR no.4:175-178 '58.
(MIRA 12:5)
(Kola Peninsula--Geology, Stratigraphic)

TOKAREV, V. I., Engr

PA 17/49T7

USSR/Chemistry - Apparatus, Plastic
Chemistry - Apparatus

Jul 48

"Letter to the Editor," V. I. Tokarev, Engr,
PervoUral Dinas Factory, $\frac{1}{2}$ P

"Zavod Lab" Vol XIV, No 7

Suggests certain chemical apparatus, e.g., filter
funnels could well be made of plastic instead of
glass, especially in view of the shortage of
chemical glass.

17/49T7

FDB

TOKAREV, V. I.

F. P. BUDNIKOV, Ukrain Khim Zhur, 1931, 5 (Tech), 13-16

ACC NR: AT6020970

SOURCE CODE: UR/3207/65/000/002/0069/0074

AUTHOR: Tokarev, V. I.

ORG: Kiev Institute of Civil Aviation (Kievskiy institut grazhdanskoy aviatsii)

TITLE: The thermodynamics of turbulent flows

SOURCE: Gidraeromekhanika, no. 2, 1965, 69-74

TOPIC TAGS: thermodynamic analysis, turbulent flow, hydrodynamic theory

ABSTRACT: To construct a theory for the statistical mechanics of turbulent flows, the article uses quantum hydrodynamic equations, which are obtained from the ordinary hydrodynamic equations if a transformation is made to an operator which represents the velocity vector. This operator has the form $i\theta\nabla$, where θ is some constant. The quantum hydrodynamic equations, written in terms of the function $\psi(\vec{r}, t)$, are assumed invariant with respect to the transformation

$$\begin{aligned}\psi &= \psi' \exp(i\alpha) \\ \psi^* &= \psi'^* \exp(-i\alpha).\end{aligned}\quad (1)$$

where $\psi^*(\vec{r}, t)$ is a function of the complex-conjugate with $\psi(\vec{r}, t)$,

Card 1/2

ACC NR: AT6020970

and χ is a constant. The article proceeds to a mathematical development of the problem, based on the above assumptions and on the Navier-Stokes equation. The analytical results indicate that in the present case the point of transition from turbulent to laminar flow is analogous to the critical point. It can be demonstrated that at the transition point the transition from laminar to turbulent flow (and the reverse) takes place at a constant velocity of the main flow (without a jump in velocity). Orig. art. has: 19 formulas.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 002

Card 2/2

LITVINENKO, I.M.; POPOV, A.F.; TOKAREV, V.I.

Kinetics of reactions complicated by the effect of autocatalysis.
Kin. i kat. 6 no.38510-521 My. Iz. '65.

(MIRA 18:10)

1. Khar'kovskiy gosudarstvennyy universitet.

1ST AND 2ND LETTERS																										3RD AND 4TH LETTERS										5TH AND 6TH LETTERS									
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z									
<p><i>R</i></p> <p>Smelyanski, I. S., Tokarev, V. L., and Rozhkov, I. P. SILICA BRICK FROM OCHERETINO QUARTZITES. <i>Ognesopory</i>. 3 (1) 17-21 (1945)</p>																										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z									
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<p>Partial replacement of quartzites by sand for the production of silica brick. I. S. Saulyanikh, Y. I. Tokarev and I. P. Kozhkov. (Ogneuporus 3, 193 0(1930)).</p> <p>R. K. Stefanowsky</p>																																																			
<p>ASAC SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			

L 40326-66 ENT(1)/ENP(m) VII

ACC NR: AP6017823

SOURCE CODE: UR/0147/66/000/002/0029/0033

AUTHOR: Tokarev, V. I.

ORG: none

TITLE: An approximation of weak coupling in the theory of turbulence

SOURCE: IVUZ. Aviatsionnaya tekhnika, no. 2, 1966, 29-33

TOPIC TAGS: motion equation, turbulent flow, vortex flow, Hamiltonian, mathematic transformation, boundary value problem, initial value problem, Navier Stokes equation, ideal fluid, incompressible fluid

ABSTRACT: The equation of motion of an ideal incompressible fluid written in the form of canonical equations for H , λ , and μ is examined:

$$\frac{d\lambda}{dt} = -\frac{\partial H}{\partial \mu}$$

$$\frac{d\mu}{dt} = \frac{\partial H}{\partial \lambda}$$

The transform

$$\vec{q}(x, t) = \nabla \varphi(x, t) + \lambda(x, t) \nabla \mu(x, t)$$

is employed. A system of N vortex lines ($N \rightarrow \infty$), which can be described by means of

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UDC: 532.507

L 40326-66

. ACC NR: AP6017823

$\lambda_1, \dots, \lambda_N$ and μ_1, \dots, μ_N , is examined. The equations of motion of this system are

$$\begin{aligned} \frac{d\lambda_i}{dt} &= -\frac{\partial H}{\partial \mu_i} + vI', \\ \frac{d\mu_i}{dt} &= \frac{\partial H}{\partial \lambda_i} + vI'', \end{aligned}$$

where H , I' , and I'' are, in general, functions of $2N + 4$ variables λ_i , μ_i , \vec{x} , and time t . Turbulent flow is represented as a set of a large number of vortices of different scales. It is assumed that the statistics which use the transformed hydrodynamic equations

$$\begin{aligned} \frac{d\lambda}{dt} + \frac{\partial H}{\partial \mu} &= vI'(\lambda, \mu, \vec{x}, t), \\ \frac{d\mu}{dt} - \frac{\partial H}{\partial \lambda} &= vI''(\lambda, \mu, \vec{x}, t) \end{aligned}$$

can serve as a model of the described pattern of turbulent flow. Orig. art. has: 17 formulas.

SUB CODE: 20/ SUBM DATE: 15Mar65/ ORIG REF: 003/ OTH REF: 002

Card 2/2 *MLP*

TOKAREV, V.L.; FUFAYEVA, G.I., red.

[Experimental determination of the kinematic and dynamic characteristics of machines; methodological manual on the theory of mechanisms and machines] Eksperimental'noe opredelenie kinematicheskikh i dinamicheskikh kharakteristik mashin; uchebno-metodicheskoe posobie po teorii mekhanizmov i mashin. [n.p.] Vysshaia shkola, 1964. 29 p. (MIRA 18:4)

Sov/133/58-9-29/29

AUTHOR: ~~Tokarev, V. M.~~ (Engineer)

TITLE: Further Increase in the Durability of Small Ingot Moulds
(Dal'neysheye povysheniye stoykosti malykh izlozhnits)

PERIODICAL: Stal', 1958, Nr 9, pp 861-864 (USSR)

ABSTRACT: A comparison of the service life of ingot moulds during the last few years is given (Table 1). Repeated checks of the composition of metal of broken moulds indicated that it corresponded to optimum composition regardless of its durability. Therefore in 1955, in order to increase further the life of small ingot moulds (630-650 kg) some modifications in the design of the mould were made. Before 1955 moulds (Fig.1) were redesigned with simultaneous decrease in their weights (Figs.2 and 3). The durability of the modified moulds increased by 32.3%. later on the proposal of V. M. Tokarev and A. M. Marin, a new design "rib mould" (Fig.4) was proposed in which a further decrease in the thickness of the mould wall was made (from 70 to 48 mm). As such a decrease in the wall thickness could have a negative influence on the crystallization of metal in the mould, 11 experimental ingots were cast (9 carbon steels and 2 of 20Kh steel) and thoroughly examined during rolling. The mechanical properties

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SOV/133/58-9-29/29

Further Increase in the Durability of Small Ingot Moulds

of the rolled products from various parts of the ingots were found to be satisfactory. Therefore 127 thin walled "rib" moulds were cast and put into normal operation. Mean service life of these moulds increased to 91 castings (from 60 to 147). An analysis of the distribution of causes for which the moulds were taken out of service is given in Table 2. About 50% of the moulds were taken out of service due to cracks and holes. An improvement in the method of cooling moulds is advocated. There are 2 tables and 4 figures.

Card 2/2

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																										MATERIALS INDEX																									
<p>TOKAREV, V. P.</p> <p>ca</p> <p>21</p> <p>Comparative investigation of the Yagman and Tuarkuir-Chagull coals. N. V. Koshkin and V. P. Tokarev. <i>Khim. Tverdogo Topliva</i> 7, 810-20(1980). Both coals are brown because they contain humic acids extractable with boiling aq. alkali only under pressure (25 atm.). The Yagman coal contains more H (4.45-4.30%) and bitumen (4.68%) and gives an alkali ext. contg. more hydroxyl groups (7.06-8.39%) than the Tuarkuir coal. The results indicate that these coals were formed from different materials under different conditions, i. e., the Yagman coal was formed as the result of reduction, and the Tuarkuir by dehydration. Analytical data are tabulated.</p> <p>A. A. Podgorny</p>																										<p>ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION</p>																									

TOKAREV, V.P.

Ch

7

A comparison of the methods for the determination of furfural with phloroglucinol and diphenylbarbituric acid. N. V. Koshkin and V. P. Tokarev... *J. Applied Chem.* (U. S. S. R.) 9, 171-6 (in French 176) (1936). Diphenylbarbituric acid (I) reacts readily and quantitatively with furfural (II) to give $C_{12}H_{10}O_4N_2$, which is insol. at room temp. in H_2O and dil. mineral acids. Parallel detns. of II with I and with phloroglucinol showed the superiority of I. In the detn. of II in natural products, more accurate results are achieved by distg. the II with steam than by simply heating. The reagent consists of 5 g. I (recrystd. from alc.) in 1 l. of 5% K_2CO_3 . Gentle warming may be used in dissolving the I; the soln. is filtered to remove any ppt. and can be kept 2-3 months. For analysis 75-100 cc. is taken of a soln. contg. 0.2-0.5 g. freshly distd. II in 500 cc. of 12% HCl and this is made up to 400 cc. with 12% HCl. Small portions of the reagent are added to this, with stirring, to 4 to 5 times the theoretical amt. After standing overnight, the ppt. is filtered, washed successively with 50-100 cc. H_2O , 150 cc. boiling 2.5% aq. $AcONa$ and 150 cc. H_2O , and dried 3-4 hrs. at 120-130°.

Lewis W. Butz

ASAC 51-8 METALLURGICAL LITERATURE CLASSIFICATION

STOYEV, I.S., nachal'nik; TOKAREV, V.S., nachal'nik.

Eighty six and one tenth meter of shaft sinking per month. Mekh.trud.rab.
7 no.8:17-23 Ag '53. (MLRA 6:8)

1. Prokhodkashakhty "Vetka-Glubokaya" (for Stoyev). 2. Pervoye prokhod-
cheskoye stroitel'noye upravleniye tresta Stalinshakhtoprokhodka.
(Shaft sinking)

D'YAKOV, B.F.; IMASHEV, N.U.; KRUCHININ, K.V.; KOGAN, A.B.:
KOZMODEM'YANSKIY, V.V.; TOKAREV, V.P.; TRIFONOV, N.K.
CHEREpanov, V.N.; VYALOVA, R.I.

Southern Mangyshlak is a large new oil-bearing region. Geol.
nefti i gaza 5 no.12:4-11 D '61. (MIRA 14:11)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy
geologorazvedocheskoye upravleniye i trest Mangyshlakneftegazrazvedka.
(Mangyshlak Peninsula--Oil fields)

TOKAREV, V.P., starshiy geolog; KHAR'KOV, V.A.

Simultaneous and separate pumping of oil and water. Neftianik
7 no.3:10-11 Mr '62. (MIRA 15:5)

1. Neftepromysel No.1 neftepromyslovogo upravleniya Leninogorskneft'
(for Tokarev). 2. Nachal'nik otdela obrabotki prizaboynoy zony
Tatarskogo nauchno-issledovatel'skogo neftyanogo instituta (for
Khar'kov).

(Oil fields--Production methods)

VYALOVA, R.I.; D'YAKOV, B.F.; IMASHEV, N.U.; KOZ'MODEM'YANSKIY, V.V.;
KRAYEV, P.I.; KRUCHININ, K.V.; TOKAREV, V.P.; TRIFONOV, N.K.;
CHEREpanov, N.N.

Southern-Mangyshlak oil- and gas-bearing region. Trudy VNIGRI
no.218:7-50 '63. (MIRA 17:3)

ARONSON, V.Ye.; BALASHOV, Ye.T.; BEIFMAN, S.A.; BYZER, B.I.; KALININ, N.A.;
MAKHONIN, A.K.; IMASHEV, N.U.; TOKAREV, V.P.

Plans for commercial prospecting for the Zhetybay and Uzen'
deposits. Trudy VNIGRI no.218:62-73 '63. (MIRA 17:3)

CHAKABAYEV, S.Ye.; IMASHEV, N.U.; TOKAREV, V.P.; KONONOV, Yu.S.; KORSUN, P.Ye.;
VOTSALEVSKIY, E.S.; IVANOV, V.A.; FARAFONOVA, N.V.; SHAKHOVOY, A.I.

Uzen' gas and oil field; outline of geology and oil and gas potentials.
Izv. AN Kazakh. SSR. Ser. geol. 21 no.4:16-30 J1-Ag '64. (MIRA 17:11)

1. Institut geologii i geofiziki, Gur'yev.

L 2323-66 EWT(d)/EWT(m)/EWP(w)/EPF(c)/EWP(c)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/
EWP(z)/EWP(b)/EWP(l)/ETC(m) IJP(c) MJW/JD/WW/WB/EM
ACCESSION NR: AP5022408 UR/0369/65/000/004/0494/0498

AUTHOR: Karlashov, A. V.; Gnatyuk, A. D.; Tokarev, V. P.

51
48
B

TITLE: Effect of corrosive medium and stress concentrator on the endurance characteristics of V95 aluminum alloy

SOURCE: Fiziko-khimicheskaya mekhanika materialov, no. 4, 1965, 494-498

TOPIC TAGS: aluminum alloy, aircraft alloy, alloy fatigue strength, alloy fatigue life, alloy corrosion, sea water corrosion, alloy notch sensitivity, V95 aluminum alloy

ABSTRACT: To determine the effect of combined action of stress concentrator and aggressive media on the endurance characteristics of V95 aluminum base alloy (1.5% Cu, 2.1% Mg, 0.3% Mn, 0.2% Fe, 0.07% Si, 5.8% Zn, and 0.2% Cr), smooth and notched (sharp notch 0.5 mm deep) specimens 10 mm in diameter, solution heat treated at $470 \pm 5^\circ\text{C}$ and aged at $140 \pm 5^\circ\text{C}$ for 16 hr, were subjected to rotating beam fatigue tests in air or in a 3% NaCl aqueous solution. The tests for $2 \cdot 10^7$ cycles showed that notched specimens have an endurance limit (4 dan/mm^2)

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ACCESSION NR: AP5022408

67% lower than that of smooth specimens (12.3 dan/mm²) (see Fig. 1 of the Enclosure). The corrosive medium decreased the endurance limit of notched specimens by 16% over practically the entire investigated stress range. The effect of corrosive medium on the endurance limit of smooth specimens increased continuously with increased cycle number. At $N = 2 \cdot 10^7$ the endurance limit in corrosive medium was 72% lower than in air. It is noted that the effects of the stress concentrators and corrosive medium are not cumulative, so that the combined effect was only 5% greater than that of the stress concentrator. The fatigue life of V95 alloy was strongly affected by 3% NaCl solution in the entire investigated stress range. For example, the fatigue life decreased 70% at a stress of 24 dan/mm², and 50—60 times at a stress of 12.3 dan/mm². A V-notch decreased the fatigue life 10 times, compared with an unnotched specimen, and the decrease became more pronounced as the stress amplitude decreased. The combined action of stress concentrator and aggressive medium decreased the fatigue life of V95 alloy still more, but the total effect is not cumulative. In general, the action of a corrosive medium decreases the fatigue life appreciably more than the endurance limit.

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ACCESSION NR: AP5022408

This is an important factor, which should be considered in calculating the service life of aircraft parts with stress concentrators working in aggressive media. Orig. art. has: 3 figures and 3 formulas. [MS]

ASSOCIATION: Kiyevskiy institut grazhdanskoy aviatsii (Kiev Institute of Civil Aviation)

SUBMITTED: 27Feb65

ENCL: 01

SUB CODE: MN

NO REF SOV: 008

OTHER: 000

ATD PRESS: 4/107

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ACCESSION NR: AP5022408

ENCLOSURE: 01

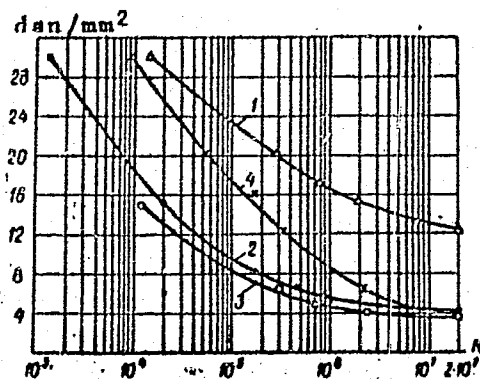


Fig. 1. Fatigue curves for V95 alloy

1 - Smooth specimens in air;
2 - notched specimens in air;
3 - notched specimens in 3% NaCl solution;
4 - smooth specimens in 3% NaCl solution.

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fatigue tests for 10,000 cycles at 100 Hz. The tests were conducted in water, at a pressure of 100 psi, and at a temperature of 100°F. The results of the tests are shown in the following table:

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APPROVED FOR RELEASE: 07/16/2001

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CIA-RDP86-00513R001756020007-3"

(N) L 13019-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) IJP(c)

ACC NR: AP5028369 SOURCE CODE: UR/0369/65/001/005/0542/0547
MJW/JD/WB

AUTHOR: Karlashov, A.V.; Gnatyuk, A.D.; Tokarev, V.P.

ORG: Kiev Institute of Civil Aviation Engineers (Kiyevskiy institut inzhenerov grazhdanskoy aviatsii)

TITLE: Fatigue strength and durability of aluminum alloys in corrosive media

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 5, 1965, 542-547

TOPIC TAGS: aluminum alloy, corrosion resistant alloy, fatigue strength, fatigue test, corrosion resistance, aircraft material, corrosion, durability, water, sodium chloride

ABSTRACT: This work presents some of the results of an investigation into the effect of corrosion media on the durability of the aluminum alloys D16ATV, D16AT, and V92, which are used in the aircraft building industry. The corrosive agents used were water and a 3% aqueous solution of NaCl. It is found that the NaCl solution at $N = 5 \times 10^6$ cycles reduces the resistance of the alloys studied by 36 - 40% at a failure probability of 50% and 0.5%, respectively. The decrease in alloy resistance to the effect of water amounts to 16 - 20% at a failure probability of 0.5%. The increase in the effect of the corrosive media on the endurance limit of V92 and D16ATV alloys occurs only on the sector of relatively high load ($N = 10^5 - 10^6$ cycles). A further

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ACC NR: AP5028369

decrease in loads discontinues the increase in the effect of the corrosive media and remains almost constant. The ultimate strength of V92 alloy differs only slightly from that of D16ATV and D16AT; the endurance limit of V92, however, in air and in a corrosive medium is substantially higher than that of D16ATV and D16AT. Orig. art. has: 5 figures and 2 tables.

SUB CODE: 11 / SUBM DATE: 27Feb65 / ORIG REF: 003

Card

2/2

(N) L 12164-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) MJW/JD/WB

ACC NR: AP5028370

SOURCE CODE: UR/0369/65/001/005/0548/0551

AUTHOR: Karlashov, A.V.; Tokarev, V.P.

58B

ORG: Kiev Institute of Civil Aviation Engineers (Kiyevskiy institut inzhenerov grazhdanskoy aviatsii)

TITLE: The effect of load frequency on the fatigue and corrosion-fatigue strength of V95 alloy with a concentrator

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 5, 1965, 548-551

TOPIC TAGS: corrosion resistance, alloy, stress concentration, fatigue strength, fatigue test / V95 alloy

ABSTRACT: This article presents the results of studies on the effect of load frequency (200 and 6000 cycle/min) on the fatigue strength of notched specimens (with stress concentrators) of V95 alloy in air, as well as the results of investigations of the corrosion-fatigue strength of the alloy in a 3-% aqueous solution of NaCl at a frequency of 200 cycle/min. The fatigue and the corrosion-fatigue strength of the specimens was also studied at load frequencies of 5000 and 10000 cycle/min. The test specimens were subjected to secondary heat treatment to relieve local stresses, and, after being heated to

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2

L 12164-66

ACC NR: AP5028370

470[±]5C and cooling in water, to aging at 140[±]5C for 16 hr. The authors subjected to experimental analysis the theory that the increased resistance of notched specimens on stress sections below 9 dan/mm² when the frequency is reduced from 6000 to 200 cycle/min results from the decrease in the effect of stress concentration at the notch due to the corrosive effect of the surrounding air. The data obtained show that the durability of cleaned notched specimens on the stress sector examined is 35% below that of non-cleaned specimens. Thus, the results confirm the opinions expressed by some investigators that fatigue tests in air are actually corrosion-fatigue tests in a weak medium. Orig. art. has: 2 figures and 1 table,

SUB CODE: 11 / SUBM DATE: 05Jun65 / ORIG REF: 007 / OTH REF: 004

HW
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L-14563-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) IJP(c) MJW/JD
 ACC NR: AP6002121 (N) SOURCE CODE: UR/0369/65/001/006/0707/0711

AUTHOR: Karlashov, A. V.; Tokarev, V. P.; Batov, A. P.

ORG: Kiev Institute of Civil Aviation Engineers (Kiyevskiy institut inzhenerov grazhdanskiy aviatsii)

TITLE: Effect of cladding on the fatigue strength of Duralumin-type alloy

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 6, 1965, 707-711

TOPIC TAGS: aluminum alloy, alloy corrosion, corrosion fatigue, aluminum clad alloy/D16 alloy

ABSTRACT: The effect of ^{44.55, 27}aluminum ¹⁶cladding on the ¹⁴fatigue and ¹⁶corrosion-fatigue behavior of D16AT (4.2%Cu, 1.6% Mg, 1.5% Mn, 0.3% Fe, 0.2% Si, 0.15% Zn) has been studied and the residual stresses in cladding have been determined. The specimens cut from sheet 2 mm thick were subjected to bend fatigue tests in air and in a 3% solution of NaCl at a frequency of 200 cycles per minute. The respective tensile strength, yield strength, and elongation of clad D16AT sheet were 45.5 dan/mm², 33 dan/mm², and 17% and those of unclad sheet 49 dan/mm², 36 dan/mm², and 16%. The investigation showed that in air, clad D16AT has a lower fatigue strength (8.6 dan/mm²) than that of unclad (11.4 dan/mm²). However, in a 3% solution of NaCl the fatigue strength of clad specimens was 6 dan/mm² and that of unclad, 3.8 dan/mm². Thus, the cladding improves the resistance of D16AT to corrosion fatigue in a 3% solution of NaCl. The

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ACC NR: AP6002121

cladding suppresses corrosion processes in base material because the former is anodic toward the latter. There is also another factor which contributes to improving the resistance of clad D16AT to corrosion fatigue: compression stresses in the cladding brought about by pressure working and heat treatment. The investigation showed the residual stresses in the surface of the cladding layer amount to 6 dan/mm² and at the boundary with the base material, 4.5 dan/mm². Orig. art. has: 4 figures. [WW]

SUB CODE: 11/ SUBM DATE: 10Jun65/ ORIG REF: 006/ ATD PRESS: 4/64

PC
Card 2/2

10KHKLV, V.P.

OL'MAN, E.V.; SOLOV'YEV, Ya.I.; TOKAREV, V.P.

[Automatic pilots] Avtopiloty. Moskva, Glav. red. aviatsionnoi lit-ry, 1946.
470 p. (MLRA 6:8)

(Automatic pilot (Airplanes))

L 26702-66 EWT(d)/EWP(1) IJP(c) BB/CG

ACC NR: AT5028448

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TITLE: Simulating linear automatic control systems on digital computers

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1965. Avtomatika i vychislitel'naya tekhnika, 71-79

TOPIC TAGS: linear automatic control system, digital computer,
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ABSTRACT: Methods are described of automating preparatory operations in
simulating linear stationary dynamic systems on a digital computer. A specialized
program is worked out which uses tabulated input variables. The simulation program
involves programing the typical system units and the control unit. All typical units
are subdivided into two groups: (1) Those describable by differential equations
(oscillatory, conservative, inertial, integrating) and (2) Those whose transfer
functions require linear transformations of input variables (first- and second-order
forcing units, differentiating, amplifying). The Runge-Kutta method is used for

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